

LISTING OF CLAIMS

The following is a copy of Applicants' claims that identifies language being added with underlining ("____") and language being deleted with strikethrough ("—"), as is applicable:

1. (Previously Presented) A microwave curable ink for piezo electric drop-on-demand inkjet printing, comprising:

- a. molecules of material in said ink capable of undergoing a polymerization reaction under the influence of microwave radiation;
- b. a microwave radiation absorber in said ink, said absorber enhances absorption of microwave radiation and conversion of said radiation into heat;
- c. a thermal initiator in said ink, said initiator being activated by heat generated by said microwave radiation; and
- d. a colorant in said ink.

2. (Previously Presented) The ink according to claim 1, wherein said molecules are acrylic monomers, acrylic oligomers or any combination thereof.

3. (Previously Presented) The ink according to claim 1, wherein said microwave radiation absorber is at least one of carbon black, minerals and polar molecules.

4. (Previously Presented) The ink according to claim 1, wherein said thermal initiator is at least one of lauroyl peroxide, cumenn peroxide dicumyl peroxide, tert-amyl peroxy-benzoate, dentanedione-peroxide, and 1,1'-azobis-cyclohexane carbonitryle.

5. (Previously Presented) The ink according to claim 1 further comprising one or more additives, said additives are wetting agents, dispersants, rheology modifiers, solvents, or defoamers.

6. (Currently Amended) A method of microwave curing of ink for piezo drop-on-demand ink jet printing comprising:

- a. providing an ink, said ink having a microwave absorber, molecules of material capable of undergoing a polymerization reaction under the influence of microwave radiation, and a thermal initiator, said absorber enhancing absorption of microwave radiation;
- b. printing with said ink an image bearing pattern on a substrate; and
- c. irradiating by microwave radiation said printed image bearing pattern such that said image bearing pattern is cured by heat generated by said microwave radiation.

7. (Currently Amended) A method of printing on an optically reflective substrate by piezo-drop-on-demand ink jet printing comprising:

- a. providing an ink, said ink having a microwave absorber, molecules of material capable of undergoing a polymerization reaction under the influence of microwave radiation, and a thermal initiator, said absorber enhancing absorption of microwave radiation;
- b. printing with said ink an image bearing pattern on said optically reflecting substrate; and
- c. irradiating by microwave radiation said printed image bearing pattern such that said image bearing pattern is cured by heat generated by said microwave radiation and said microwave radiation is not reflected by the substrate.

8. (Canceled)

9. (Currently Amended) The ink according to claim & 1, where said molecules are monomers and oligomers containing acrylate groups.

10-12. (Canceled)

13. (Previously Presented) The ink according to claim 3, wherein said microwave radiation absorber comprises said polar molecules, said polar molecules comprising alcohols, amines, ammonium salts or conductive polymers.

14. (Canceled)

15. (Previously Presented) The method according to claim 7, wherein printing on said optically reflecting substrate comprises printing on a glass surface, a plastic surface or a marble surface.

16. (Previously Presented) The ink according to claim 1, wherein the ink contains only polymerizable components, which are converted into polymeric coating only after printing and by exposure to microwave radiation.

17. (Previously Presented) The method according to claim 6, wherein the ink contains only polymerizable components, which are converted into polymeric coating only after printing and by exposure to microwave radiation.

18. (Canceled)